

wherein a head width of the second video head is equal to approximately a track pitch of the video signals recorded on the magnetic tape when the running speed of the magnetic tape is approximately $1/3$ of the standard speed.

7. The recording apparatus according to claim 4, wherein a head width of the second video head is equal to approximately a track pitch of the video signals recorded on the magnetic tape when the running speed of the magnetic tape is approximately $1/3$ of the standard speed.

8. The recording apparatus according to claim 5, wherein a head width of the second video head is equal to approximately a track pitch of the video signals recorded on the magnetic tape when the running speed of the magnetic tape is approximately $1/3$ of the standard speed.

9. A recording apparatus of a helical scan system, comprising:

a switch which switches between a first recording mode in which video signals are recorded on a tape at a standard track pitch, a second recording mode in which video signals are recorded on the tape at a track pitch equal to approximately $1/3$ of the standard track pitch, and a third recording mode in which video signals are recorded on the tape at a track pitch equal to approximately $1/5$ of the standard track pitch.

10. A recording apparatus of a helical scan system,

comprising:

first and second video heads which record video signals on a magnetic tape; and

11. The recording apparatus according to claim 10, wherein a head width of the second video head is equal to approximately $1/3$ of the standard track pitch.

first and second video heads which record video signals
on a magnetic tape;

a switch which switches between a first recording mode in which video and audio signals are recorded by the first video head and the audio head at a standard track pitch, a second recording mode in which video and audio signals are recorded by the first video head and the audio head at a track pitch equal to approximately $1/3$ of the standard track pitch, and a third recording mode in which video and audio signals are recorded by the first video head and the audio head at a track pitch equal to approximately $1/5$ of the standard track pitch.

13. A reproducing apparatus of a helical scan system, comprising:

first and second video heads which reproduce video signals from a magnetic tape; and

a switch which switches the first and second video heads so that the first video head reproduces video signals recorded on the magnetic tape at a standard track pitch, and the second video head reproduces video signals recorded on the magnetic tape at a track pitch equal to approximately $1/N$ of the standard track pitch, N being an integer larger than 3.

14. The reproducing apparatus according to claim 13, wherein the value of N is 5.

15. The reproducing apparatus according to claim 13, wherein the second video head reproduces video signals recorded on the magnetic tape at a track pitch equal to approximately $1/3$ of the standard track pitch.

16. The reproducing apparatus according to claim 14, wherein the second video head reproduces video signals recorded on the magnetic tape at a track pitch equal to approximately $1/3$ of the standard track pitch.

17. The reproducing apparatus according to claim 15, wherein the value of N is 6.

18. The reproducing apparatus according to claim 13,

wherein the second video head reproduces video signals recorded on the magnetic tape at a track pitch equal to approximately $1/3$ of the standard track pitch.

25. The reproducing apparatus according to claim 23, wherein a head width of the second video head is equal to approximately $1/3$ of the standard track pitch.

26. A recording/reproducing apparatus of a helical scan system for recording/reproducing a video signal on/from a magnetic tape, comprising:

a first head which records/reproduces a video signal at a time of a standard play mode in which a running speed of the magnetic tape is a standard speed; and

a second head which records/reproduces a video signal at a time of a 3-ple play mode in which the running speed of the magnetic tape is approximately $1/3$ of the standard speed and at a time of N-ple play mode in which the running speed of the magnetic tape is approximately $1/N$ of the standard speed, N being an integer larger than 3.

27. The recording/reproducing apparatus according to claim 26, wherein the value of N is 5.

28. The recording/reproducing apparatus according to claim 26, wherein the value of N is 6.

29. The recording apparatus according to claim 26,

wherein a head width of the second video head is equal to approximately a track pitch of the video signals recorded on the magnetic tape at the time of 3-ple play mode.

30. The recording apparatus according to claim 27, wherein a head width of the second video head is equal to approximately a track pitch of the video signals recorded on the magnetic tape at the time of 3-ple play mode.

31. The recording apparatus according to claim 28, wherein a head width of the second video head is equal to approximately a track pitch of the video signals recorded on the magnetic tape at the time of 3-ple play mode.

090326414-041801

ABSTRACT OF THE DISCLOSURE

A recording apparatus of a helical scan system, including a first video head which records video signals on a magnetic tape when a running speed of the magnetic tape is a standard speed and a second video head which records video signals on the magnetic tape when the running speed of the magnetic tape is approximately $1/N$ of the standard speed, N being an integer larger than 3.

0983644-041801
FOI 40-179860